

Abstract:

Page 29, the abstract, replace with the following new abstract paragraph:

--- DUAL-MODE ULTRA WIDEBAND AND WIRELESS LOCAL
AREA NETWORK COMMUNICATIONS

Abstract of the Disclosure

A dual-mode ultra wideband (UWB) and wireless local area network (WLAN) communication transceiver is used to implement two disparate systems of UWB and WLAN communications within a single device. During the UWB mode, the communication transceiver sends and receives the UWB signal at very-high data rate with a relative short transmission range. During the WLAN mode, the communication transceiver sends and receives the WLAN signal at a relative low data rate, but with a longer transmission range. Thereby, trade-off benefits of the dual-mode UWB and WLAN communication transceiver can be mutually utilized to achieve seamless wireless broadband communications between two different standards.